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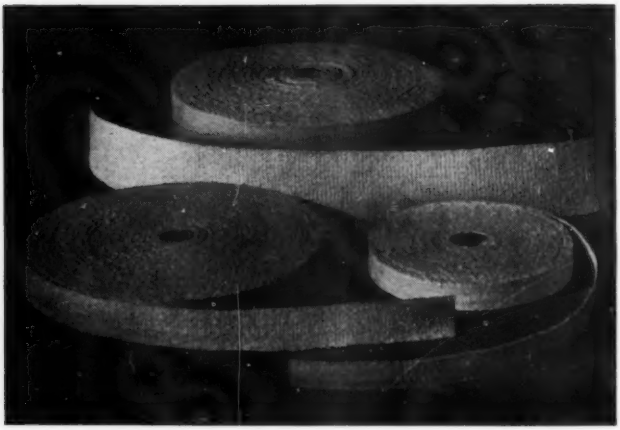

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MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
807 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA 7, PENNSYLVANIA

Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*
Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 39 SEPTEMBER 1957 Number 3

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - $2.00 Per Year
Canada - $3.00 Per Year Foreign Countries - $3.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

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FLOWABLE MATERIALS CONVEYANCE

By Lyne S. Metcalfe

The problems of handling materials have long engaged the serious attention of the modern mass producing asbestos plants, and are widely considered as probably the most important phase of operations in which to reduce labor requirements, increase safety factors and cut costs.

A good many plants have found better ways to utilize the aids, devices and techniques available today for speeding up the movement of flowable materials. This has been the result of long research and practical engineering experience developed on the drawing boards, and on location in conjunction with all kinds of plant operations involved.

These plants have discovered mechanical methods and procedures to cut bulk asbestos materials handling costs; to increase output of present equipment; to provide for continuous processing; to reduce plant traffic and confusion; to protect materials from contamination; to eliminate employee health hazards; to control fumes, odors, dust, moisture—and to convey materials more safely.

In considering modern installations of handling equipment for flowable materials of any type, it is the concensus of opinion that management should start with the idea that this step in operational improvements must be considered in the light of much more than the mere replacement of a few workers here and there with a piece of mechanical equipment.

The study of the handling of such materials in quantity must start with the inception of a modular unit all the way from the production and processing lines to the packing point, to the storage area and to the carrier.

These progressive preliminary steps leading to distribution of the finished product to the market must be taken by management with the highest degree of speed and efficiency, in which the conveying phase must perform its task with precision equal to every other operation.

An analysis and evaluation of this modern type of plant operation reveals a comprehensive picture of convey-

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or requirements for handling flowable materials. It will be summarized in the succeeding paragraphs and will be found well worth study as groundwork for specifications in connection with any plant improvement or modernization which may be contemplated by the reader.

In all conveying of any kind of flowable material, flexibility in direction is of prime importance. Change in direction of conveying should be a part of the movement, without the necessity of transferring from one conveyor to another. A single conveyor should be able to operate in more than one place without transfer points. Roller turns should be provided to make rolling friction available for any abrupt clearance turns which are required, and particularly is this true for extremely abrasive materials.

Also, provision in any conveying system should be made for the possible future extension of the system by a simple addition of extra pipe and chain.

Some of the conveyors in use today have the ability to handle a wide range of materials, such as abrasive, corrosive, semi-solids and food products without contamination.

In some, different materials may be handled in the same conveyor without contamination due to the self-cleaning characteristics of the conveyor. Another factor to look for is minimum particle breakage and the ability to convey without product segregation by particular size.

There should be versatility in handling, through the provision of multiple receiving and discharge points. Another important requirement in certain types of conveying is the ability of the equipment to allow automatic filling of a series of bins without gates (i.e., choke feed). A check also should be made of the presence or absence of ease of cooling or heating, internally or externally. Likewise the ability to deliquefy and the ability to pump. In addition, if needed, the conveyor system may have to assure adjustment to a wide range of temperature conditions.

Another versatile function which may be required is the matter of recirculation, i.e., the mechanical ability to return unused material to the original feeding point. It may be necessary to utilize conveyor systems with a wide

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range of materials for flight construction to suit plant requirements. And, the question of whether a conveyor can handle both carry and return runs. It may be necessary in some instances to increase capacity and if so, the question of adaptability to simple changing of the drive should be looked into.

Then, there is also the capacity of certain installations to convey into or out of, or process through pressure or vacuum zones with pneumatic controls. Also accurate volumetric control (for feeding), all of which the modern conveyor manufacturer can engineer to meet customer's specific problems. (For example, conveyors can be equipped with noiseless vibrators to insure positive discharge of materials, and many other technical devices are also to be had.)

The construction of the conveyors which were examined was of the totally enclosed type. They resist explosion, and will test to suppress flame. Odor control, dust and vapor tightness are elements which may have to be considered and rigidly required.

Some of the other musts in considering these installations, is that the conveyor should have faculties of self-cleaning. Also ease of supporting and versatile installation features, and minimum structural steel. There should be minimum clearance requirements and minimum pits needed for railroad car unloading. There is no need for ugliness either, in this kind of equipment. Much of it in use today is of very neat and pleasing appearance.

The aim in modern design, of the tubular type of conveyor we have been discussing, is also to achieve the lowest power requirements possible. Another is to effect quiet operation. Also to dispense with special feeding equipment — and to assure a continuous distributing discharge over large bins wherever this is a necessary part of the product operation. Naturally, low general maintenance costs should be present in any installation.

Regarding this important matter of upkeep, there are conveyors in use which require only as few as one or two lubrication points. Where standard pipe is used it allows very easy replacement of flanged pipe. Systems are available which require no lubrication whatsoever on the conveyor chain. Another advantage may be found in straight

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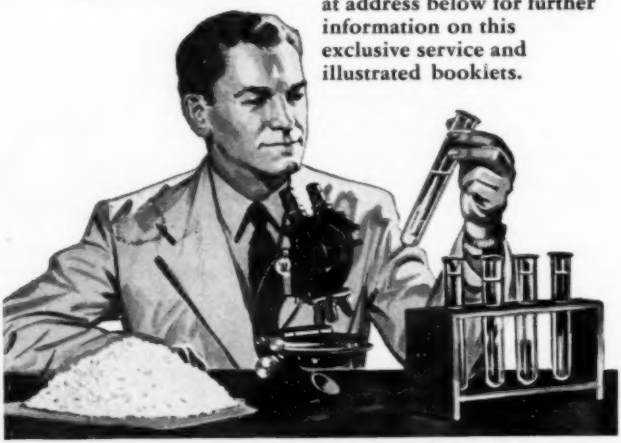

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pipe sections where maximum life can be achieved by rotating them from time to time.

What the present modern tubular conveyors look like and how they work is very instructive. Basically such a conveyor consists of a series of solid circular flights or discs, mounted at intervals on a sealed pin chain.

This assembly works within a tubular casing and is driven by a special sprocket engaged with a drive "box". The continuous operation of the endless chain assembly through the enclosed tubular casing leads the material be conveyed from various receiving or discharge points.

The chain itself comprises an assembly of side and center links — connected by pins with neophrene washers. These washers are assembled under compresson between the parts of the linkage. The purpose of this is to prevent material particles being conveyed from contact with the pins and thus causing wear. The pins themselves must be hardened to assure longer life.

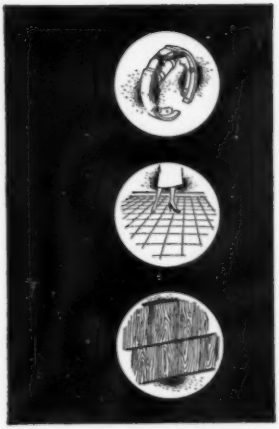
Modern conveyor engineering today enlists many features in designing systems to meet any and all special conditions. Only a few can be covered in this writing.

However, for instance, in some cases, the flights consist of magnesium, bronze, stainless steel, plastic or cast iron instead of neophrene to meet special local conditions. Also sometimes neophrene flights are bonded to, or bolted between steel back up attachments to form a solid disc.

On an average, the flights have an area about equal to 80 per cent of the sectional area of the tubular casing Flights are mounted eccentrically on the chain, so that, as the chain moves through the conveyor pathway, it twists through the pipe — the "heel" of the flight in contact with the "bends".

As a rule, this type of conveyor operates in pipes ranging from 2 inches to 12 inches in diameter. Regarding rapidity of operation, these conveyors are designed to move at speeds of from one foot per minute to over 200 feet per minute. They can handle "pilot" range up to 40 tons per hour.

This type of conveyor can operate on more than one plane which is considered a great advantage among designers. As to power requirements, it has been pointed out



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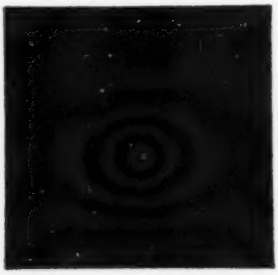

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Said Lynn J. Riege, of the Hapman Organization, pioneers in the development of conveyors, to this writer:

"Leading companies are maintaining their position in the front rank of American Industry by adhering to a doctrine which has been long acknowledged in every successful factory. This simply means taking advantage of new ideas and new machines as they are developed — even though further improvements may be available sometime in the future.

"Progress is only made by, first logically evaluating the effects of a system and the improvement procedures, and then moving into it and getting the thing done. No one can predict every engineering hope in advance, nor can they wait for it in the economic present. When the current improvements available in new mechanical efficiency are affected, such a company that has taken the immediate step will always be in a better position to incorporate future new devices into its system than those which have postponed any revision of outmoded operational production practices.

"The progressive materials-handling-conscious man is continually searching for better materials and handling methods in the overall function of distribution of materials to eliminate waste motion and consolidate activities for a smooth flow of materials and relief of bottlenecks.

"It is this urge to do the job better, to get materials and things from where they are to where they are wanted or needed—and to do it rapidly, safely and with economy, that has spurred engineering organizations like our own to make even greater advances than anticipated in so greatly improving the techniques in this function of conveying. There can be no question but that the manner and method of flowable materials handling is the one vital place, in plants requiring improvement of this operation, which offers sound and substantial opportunities for cost cutting and other operational savings."

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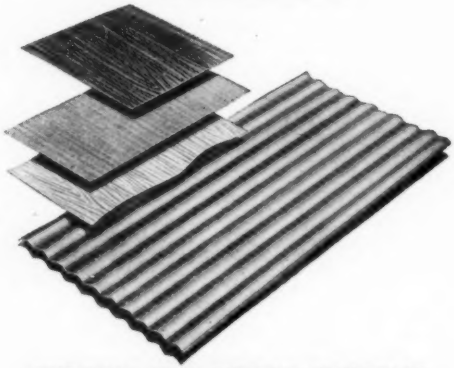

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NATIONAL GYSUM READIES NEW ASBESTOS-FIBRE PLANT AT THETFORD MINES

As a part of its general expansion program, and to meet the steadily increasing demand for asbestos fibre, National Gypsum Company is rushing completion of its new plant at Thetford Mines in Quebec, Canada.

This vast development will be completed and in operation by mid-1958 to supply asbestos fibres for the manufacture of tiles, automotive gears, clutch facings, brake lining segments, braided packing, gaskets, twisted wick, fire-fightng suits, jet engines, Asbestos-Cement products and innumerable other products of which asbestos fibres are an integral part.

The mill at Thetford Mines will be a five-story building and wll employ the most modern-up-to-date machinery and techniques yet developed in the production of asbestos fibres. From this mill will come highest quality long fibres for spinning into yarn and for use in the manufacture of Asbestos-Cement products as well as the shorter grades of fibre which are used in the production of asphalt and plastic tile, asphalt roofing compounds, molded products and a variety of other items. The extracted asbestos will be collected into standard grades ranging from 3R fibres to floats. All grades will be produced to meet Quebec Standards and milled to meet the requirement of the individual user.

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DRYCOR PIONEERS NEW FELT FOR ASBESTOS CEMENT PIPE MANUFACTURE

The Drycor Felt Company which recently celebrated its twenty-second anniversary of specialized service to the Asbestos cement industry, announces the successful development of a completely new type of needled felt, specifically adapted to the needs of the Asbestos Cement Pipe Industry.

The new felt is offered under the Trade Mark DRYCOR PIONEER*, and is available in a full range of dimensions to meet requirements of all presently installed pipe machines in this country.

Behind the announcement of the DRYCOR PIONEER FELT, stands the Drycor Research and Development Division. For the purposes of the Drycor Process, there was no standard, commercially available equipment, and notwithstanding the accumulation of two decades of creative experience perfecting the needled felt for asbestos cement sheet manufacture, the needled pipe machine felt posed new problems and new obstacles.

The program leading to the successful development of this felt involved design, engineering and construction of specialized equipment, and the evolution of techniques which broke through conventional barriers. Drycor is deeply indebted to those men of imagination, from the operational level up, among the asbestos cement pipe manufacturers, for their significant contributions to the final success of this joint effort.

After intensive effort and experimentation covering a period of several years, the first successful DRYCOR PIONEER pipe felt was manufactured in 1956 in a pilot plant. Field tests were the next step, and developed the need for a series of corrections and refinements. Once again Drycor's Research-Development team found in the help and cooperation of the pipe men, the clues leading to step-by-step progress.

Paralleling the developmental efforts in its pilot plant, Drycor acquired in Rockville, Connecticut, sub-

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stantial manufacturing space, and has equipped it to meet the present needs of the domestic asbestos cement pipe industry.

Drycor's original target in creating the DRYCOR PIONEER felt, was to bring to the Asbestos Cement Pipe Industry, the same reduction in felt cost per unit of production, that had been its contribution to the asbestos cement siding field. In the course of realizing this objective, corollary operational and product quality characteristics emerged, which may well outweigh in importance, the demonstrated economies of the felt through longer life.

Currently under evaluation by the asbestos cement industry itself, are such characteristics of the DRYCOR PIONEER felt as:

1. Ability to produce critical size pipes throughout the major portion of its total life. Production of critical pipe sizes is no longer limited to the first few shifts in the life of a new conventional felt, a condition which in the past has resulted in either the premature removal of the felt from service, or the stock-piling of unordered pipe sizes in order to obtain economic felt life.
2. Ability to produce pipe possessing greater initial firmness, retaining inside and outside diameters during formation, and reducing tendency to sag when the mandrel is withdrawn, thus increasing recoverability of short lengths.
3. Squarer ends during formation of pipe, which operators interpret as an indication of more uniform texture from end to end, resulting in better machinability in general.
4. Some users are making new studies as a result of their observation that there is greater retention of fines with consequent greater materials yield.

Field reports confirm that in addition to longer felt life on many machines, the Drycor process produces a felt with a good inherent dimensional stability heretofore a problem for felt manufacturers utilizing significant percentages of synthetic fibres.

Historically, the Drycor Felt Company is best known for its contribution to the Asbestos Cement Siding Industry of the first needled felt. It was coincidental that two

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manufacturing processes met at an industrial cross-road in the mid-thirties. The Asbestos Cement Siding Industry, which had its inception some twenty odd years previously, was on the verge of maturing into a prominent place in the building materials field, but found itself hampered by limitations of the woven pulp felts available to it. The unique method of manufacture of the Drycor Felt Company soon demonstrated that its needling process had great potential in reducing Asbestos Cement machine production limitations, in which the felt was involved.

The early Drycor needled felts solved many of the severe mechanical and chemical felt problems facing the Asbestos Cement siding manufacturer, but with the inevitable quest for greater hourly rates of production, and improvements of quality of asbestos cement products, greater and greater demands were placed on felt design and constructions, until it did indeed seem that the limitations of natural fibres were being approached.

With the advent of Nylon and other synthetics in the post-war years, the superiority of Drycor's new process became so outstanding as to make it the prime source of felts for the domestic Asbestos Cement Industry for siding and flat sheets. Subsequently, Drycor has been privileged to supply a portion of the asbestos cement manufacurer's felt requirements in thirty countries in other parts of the world, and the Company derives deep satisfaction from the fact that during the years when many Asbestos Cement plants were largely dependent upon the Drycor Felt Company for their machine clothing, including two wars, no plant was impaired through lack of felt supply.

Drycor is convinced that future demands to be made on felts for the Asbestos Cement Industry, will continue to be increasingly severe, and intends to anticipate them through continuing research and evaluation of new synthetic fibres as they are announced, and in devising new techniques to make those already available, more effective.

The Drycor Felt Company is proud to be the pioneers of this revolutionary new contribution to another member of the Asbestos Cement Industry — the ASBESTOS CEMENT PIPE MANUFACTURER.

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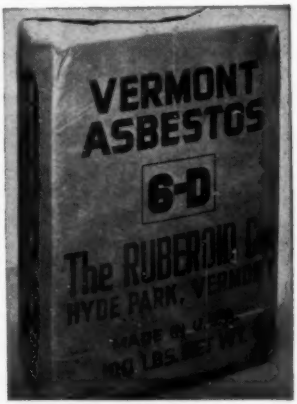

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FIFTY MILE JOURNEY OF 105 FT. LONG AUTOCLAVE CAUSES HUNDREDS OF LIFTED EYEBROWS

Startled second looks were the order of the day recently when a 40-ton, 105 ft. long autoclave was transported 50 miles by truck from Newport, Delaware to Keasbey & Mattison Co., Ambler, Pa. The autoclave, one of three being delivered, resembles a huge oversized pipe, and will be used at Keasbey & Mattison in the steam curing of asbestos-cement pipe manufactured by the firm.

The unusual trip, conducted at a snail's pace, took a total of 37 hours or an average of just over one mile per hour. Various possible routes were studied for weeks before the final route was decided upon. Low underpasses, roadside mailboxes, overhanging trees and telephone wires were some of the problems encountered. The Allied Steel Products Corp. of Newport, Delaware designed and built the three massive autoclaves.

The reason for all this effort is most justified since the autoclaves will slash curing time of asbestos-cement pipe from three weeks to one day. At present, asbestos-cement pipe is cured under water for one week and then air cured for an additional two weeks before shipping. The new improved system of steam curing within the autoclaves makes possible the entire curing operation in a period of 24 hours.

The 45th annual National Safety Congress and Exposition will be held October 21-25 in Chicago, Ill. Sessions on industrial safety scheduled for the Conrad Hilton, Congress, Morrison and LaSalle hotels; traffic safety, Congress; commercial vehicle and transit safety, La Salle; farm safety, Hamilton school safety, Morrison, and home safety, Conrad Hilton. Further information may be obtained from R. L. Forney, general secretary, National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

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SIXTH COMMONWEALTH MINING AND METALLURGICAL CONGRESS

With the approval of the Commonwealth Council of Mining and Metallurgical Institutions, and on invitation of the Canadian Institute of Mining and Metallurgy, the Sixth Commonwealth Mining and Metallurgical Congress will be held in Canada from September 8th until October 9th.

Delegates from approximately seventy countries of the world are expected to arrive at Vancouver, B. C. and travel across Canada by planes and trains on a schedule calling for the final meeting at Halifax, N. S.

It is expected that the Sixth Congress will be the most important and most comprehensive event yet sponsored by the Canadian Mining Industry.

The Ruberoid Co., launched an entirely new venture in building materials advertising with one of the biggest closed circuit radio meetings ever held.

Through the facilities of the National Broadcasting Company, E. J. O'Leary, Ruberoid executive vice president, told hundreds of company customers and salesmen gathered in radio studios all over the country, that this fall Ruberoid will promote its products on Monitor, NBC's national weekend show. One of the nation's leading producers of roofing and siding, the company is the first national advertiser in its field to buy into the network's unique program.

The new campaign is also the first in the industry to provide facilities for direct tie-in advertising for local building materials dealers, applicators, and contractors.

W. E. Sinclair M.I.M.M., Consulting Mining Engineer, of Mooi River, Natal, S. Africa., and author of the book "Asbestos Its Origin, Production & Utilization", and Mrs. Sinclair are attending the Sixth Commonwealth and Metallurgical Congress being held in Canada during September and October.

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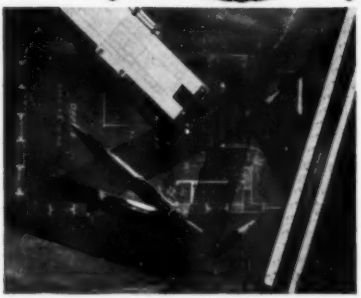

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The difference between two kinds of insulation may be many years of trouble-free service . . . an advantage that may far outweigh the initial cost factor.

Mundet engineered insulations are precision-manufactured to serve you for your individual requirements... longest ... best!

You can depend on Mundet for these benefits:

1. A full line of thermal insulations for all temperature ranges...
2. Prompt attention to your needs and speedy deliveries from nearby Mundet warehouses

MUNDET INSULATION PRODUCTS

include "custom-molded" 85% Magnesia heat insulation and "Tri-Calite" insulation for higher temperatures. Also Mundet's Expanded Polystyrene Pipe Covering and Board Insulations, and Corkboard and Cork Pipe Covering for low temperature.

MUNDET CORK CORPORATION
Insulation Division
7101 Tonnelle Ave., North Bergen, N. J.
OFFICES IN PRINCIPAL CITIES

COMPLETE INSULATION SERVICE... **MUNDET**

MARKET CONDITIONS

GENERAL BUSINESS.

General business is good but, as for some months past, is spotty. In certain areas such as new housing starts and automobile sales, where an uptrend appeared a month or so ago, moderate decreases are now noted. It appears that inventories in many industries instead of decreasing, have actually been building up at a moderate rate. The incidence of vacation shut-downs has resulted in the usual summer lull in many lines. After Labor Day we should soon see whether the predicted fall rise will materialize. It is generally felt that, should the rise occur, it will probably be less pronounced than was previously anticipated.

ASBESTOS — RAW MATERIAL

Word has been received from some of the asbestos producers that, effective October 1st, the prices for all grades of fibre will be increased approximately 5% and payment will be accepted in Canadian funds or their U. S. equivalent.

The discount on the U. S. dollar as compared to the Canadian has reduced the value of fibre shipments by approximately 5% over an extended period of time.

Since the last price increase in December 1955, the cost of production has increased considerably, due to increases in labor costs and other items entering into production.

The 5% price increase is designed to recover some part of this additional outlay.

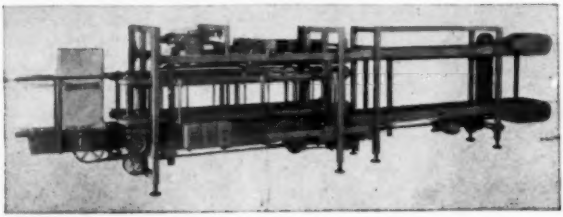
ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. A temporary lull is being experienced in this market due primarily to the lack of buying on the part of large equipment accounts. The outlook for the coming months appears to be fair and a rather substantial improvement is expected in order placements during the next few months.

Asbestos Brake Lining. Replacement sales are running at a high level, approximately 9% ahead of last year

PACKOMATIC *Shows the way to increased efficiency in your BALE SEALING operation.*

- **ADJUSTABLE—to the accepted range of ASBESTOS Bale Sizes.**
- **AUTOMATIC—can be furnished with or without tucking device.**
- **NEW—engineered with the most advanced electrical and mechanical features available.**
- **STURDY—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.**
- **CUSTOM—DEVELOPED OUT OF THE EXPERIENCE IN THE ASBESTOS INDUSTRY.**



USERS:

Canadian Johns-Manville Corp.
The Ruberoid Company
Flintkote Mines, Ltd.

We are represented in the principal cities of the United States, Canada and Overseas Export Offices in New York City.

Your direct inquiry will receive prompt attention.

PACKOMATIC

T. M. REG. U. S. PAT. OFF.

PACKAGING MACHINERY

J L FERGUSON CO JOLIET ILL

Chicago, New York, Boston, Philadelphia, Tampa, Cleveland, Denver, San Francisco, Los Angeles, Baltimore, Seattle, Portland, Dallas, New Orleans

which was a record year. Equipment sales are slightly below those of last year but should improve with the fall showing of '58 models.

Asbestos Paper. Good orders for this material have been received for lesser quantities than in the past although a recent price increase has helped to develop some additional business. The *Millboard* market continues fair considering the seasonal factor and despite signs of consummer caution in appliance spending. The balance of this year should be about the same as last year except that the overall sales will be lower. There is a marked improvement in the present market for *Saturated Paper,* over the first two quarters of this year. Sales in most products are only slightly behind forecast but pro duction is still ahead of sales.

Insulation. High Pressure. The present market appears to be slightly improved over that which has been experienced during the past several months. Excellent prospect for present, or better, volume is indicated for the balance of the year.

Insulation. Low Pressure. Orders have increased slightly for this product during the past month due to a number of projects which were started last winter, now being ready. Volume for the balance of the year should be equal to that of 1956.

Asbestos Cement Products. Sales are strong for this time of year and volume for the year is expected to be about the same as last or slightly off.

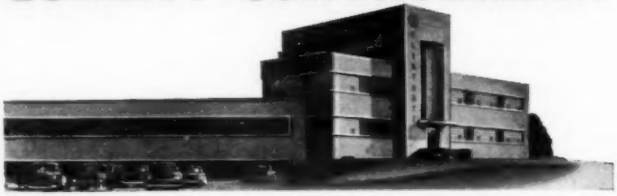
The industrial market for *Corrugated and Flat* appears to have settled down on a plateau.

Order placements for *Roofing and Siding* to date are considered normal and seasonal.

Seasonal demand is being experienced for all types of *Asbestos-Cement Pipe* even though this demand is not nearly as great as it was a year ago. It is anticipated that reasonably heavy demand will continue until early winter when seasonal decline will commence.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

AUTOMOBILE SALES

	June 1957
Passenger Cars	496,329
Motor Trucks	94,321
Motor Coaches	389
	591,039

In June 1956, a total of 538,052 motor vehicles were sold. In the six months of 1957 the total was 3,937,576.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

CLOSE OUTS OF ASBESTOS TEXTILES WANTED

We have cash waiting for your excess or surplus lots of asbestos and fibreglass tapes and other textiles. Your offering will receive our prompt, courteous and confidential consideration. Address Box 41-H. "ASBESTOS", 807 Western Saving Fund Bldg., Phila. 9, Pa.

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

LINCOLN IRON WORKS

(Successors to Asbestos-Cement Associates, Inc.)

255 West Street Rutland, Vermont

ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

26 BROADWAY

NEW YORK 4, NEW YORK

Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

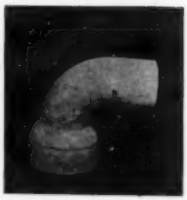
A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing

FITTINGS

OF EVERY SHAPE AND DIMENSION



—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy
Cable: MINITA—MILANO **Phone: 26 67 27**

BUILDING

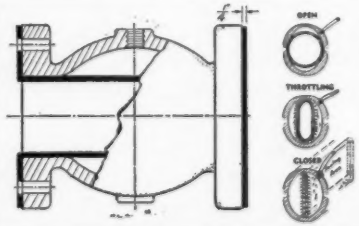
Contracts for future construction in the United States in July totalled $2,900,681,000, a decline of four percent below July 1956, the F. W. Dodge Corporation, construction news and marketing specialists, reported.

Non-residential contracts in July amounted to $960,658,000, down 11 percent from the comparable month last year. Nearly all the major non-residential building types shared in the decline.

July contracts for residential buildings were valued at $1,286,937,000, an increase of 13 percent over the corresponding year-earlier level. The number of housing units represented by the July contracts totalled 95,696, up seven percent above a year ago. Contracts for multi-unit dwellings accounted for the major part of the increase in both dollar and unit volume.

Contracts for heavy engineering construction in July totalled $653,086,000, a decrease of 18 percent compared with the same month last year. Both public works and utilities were below their corresponding year-earlier levels.

Cumulative contract totals for the major construction categories for the first seven months of this year, with percentage changes from the comparable 1956 period, are as follows: non-residential building $6,931,405,000, up three percent; residential building, $7,770,251,000, down two percent; heavy engineering, $5,157,030,000, up 14 percent; and total construction $19,858,686,000, up three percent.



RED JACKET VALVES

For Crude or Refined Asbestos

CARNEGIE, PA.

SMITH & KANZLER CO.

Manufacturers of

ASBESTOS PAPER

Pipe Covering & Blocks

Air Cell

Wool Felt

Anti Sweat

Anti Freeze

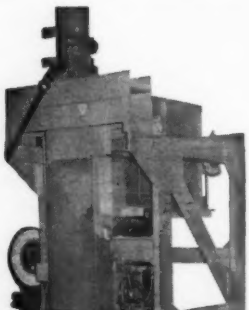
Sponge Felt

Multi Ply

Established 1920

East Linden Ave., Linden, N.J.

GRADERS



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MILLING
EQUIPME

DESIGNED
MANUFACTU
&
SUPPLIED
BY

LYNN M

ENGINEERING SU
THETFORD MINES

PACKOMATIC BALE SEALER
FLEXOVEYOR BAG FLATTENER
ROTEX SCREENERS
BAUER SEPARATORS
ENTOLETER FIBERIZERS
SYNTRON VIBRATORY FEEDERS
RAYMOND WHIZZERS
SCALES & MAGNETS

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BY

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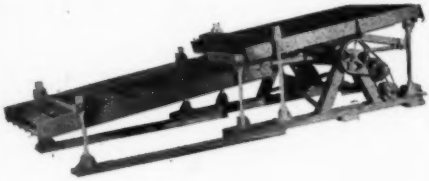
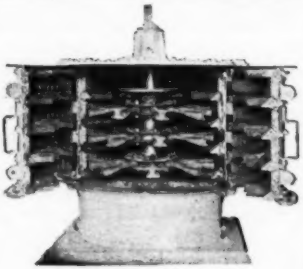
NG SUPPLIES, LTD.
MINES, QUEBEC



SHAKING SCREENS—ALL TYPES



VERTICAL FIBERIZERS

JUMBO FIBERIZERS

R CYCLONES
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PRECOMPRESSORS
MULTI-STAGE FIBERIZERS
DERS FIBRE GRINDERS
QUEBEC STANDARD
TESTING MACHINES
NS FILTERS
EYING EQUIPMENT

—•—

D METALLURGY, LTD.
STEEL CASTINGS

COST CONTROL IN AN ASBESTOS MINING COMPANY

An article under the above heading by J. W. McCarville, Comptroller, Asbestos Corporation Limited, Thetford Mines, Quebec, appeared in the July 1957 issue of the Canadian Mining Journal. The article attempts to give a brief summary of the cost accounting methods used in Asbestos Corporation Limited — a company engaged in the mining and milling of asbestos.

"ASBESTOS" will be glad to lend its copy to interested readers upon request.

A new ten-page illustrated bulletin has just been prepared by Southwestern Engineering Company, Los Angeles, California, to describe the services of its ore investigation laboratory.

Well illustrated and prepared in two colors, the bulletin describes the services of this well known laboratory to the mineral processing industry. A part of the SWECO Engineering & Construction Division, the organization carries out investigation of ores, flow sheet development and plant design and construction.

Copies of the bulletin are available on request to Southwestern Engineering Company, 4800 Santa Fe Avenue, Los Angeles 58; ask for Bulletn E-571.

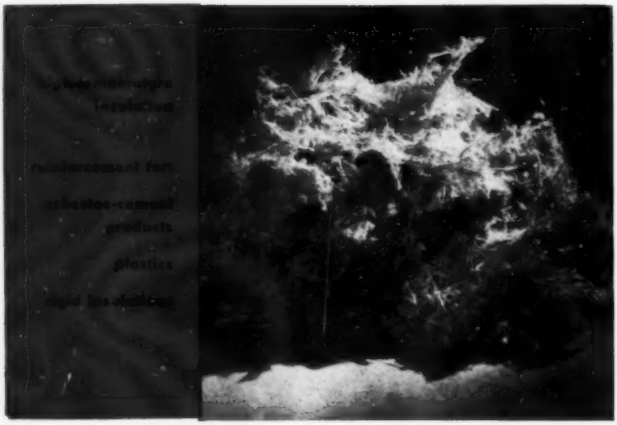
CORRECTION: Line one, page 4 of our August 1957 number should be corrected to read: "produces about 60% of the world's asbestos fibre.

" *Tropag* "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS



many industries find many uses for

AMOSITE asbestos fiber

Longest-fibered of all asbestiform minerals, Amosite, when fiberized, increases many times in volume. The rod-like nature of the long, minute fibers keeps the mass open, bulky, resilient. Learn how you can benefit by the unique characteristics of this form of asbestos from the world's largest producers of Amosite.

NAAC

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NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

CAPE

Subsidiaries of The Cape Asbestos Company Ltd. • London

Canada

(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for June 1957 (Quebec)	79,472 tons
Other Provinces	4,474
	83,946

Total production for June 1956 was 79,773 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for April 1957	11,470.49 tons
Valued at	£724,917
Production for April 1956	10,052.25 tons
Valued at	£765,629

Australia — Statistics

(Published by Bureau of Mineral Resources)

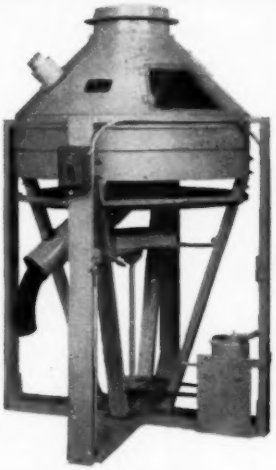
Tons 2240 *lbs.*

Production

	Quarter ending Dec. 31, 1956	Year 1956
Chrysotile	700 tons	1,384 tons
Crocidolite	2,177	7,417
	2,877	8,801
Imports		
Amosite	1,997	9,504
Chrysotile	3,850	16,379
Crocidolite	58	20
Other	35	469
	5,940	26,372
Exports		
Chrysotile	3	36
Crocidolite	2,235	6,767
Other	....	90
	2,238	6,893

150

used in
Asbestos Industry



Bauer

Specific
Gravity
Separators

Asbestos processing plants are using 150 Bauer Specific Gravity Separators for cleaning fiber. The machines are available in two sizes with 1 to 5 T/hr. capacity.

They require less air than other types of cleaners. They handle Nos. 4 to 8 fibers.

The separators remove small grit, rock particles, blasting wire, wood particles, and many other kinds of debris. Ask for particulars.

THE BAUER BROS. CO.

1826 Sheridan Ave. • Springfield, Ohio

Canadian Agents: — Lynn Macleod Engineering Supplies, Ltd., Thedford Mines, Quebec.

Export Agents: — M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.

A. S. T. M. — COMMITTEE C-16
THERMAL INSULATION

Committee C-16 of A.S.T.M. will meet at the Hotel Chateau Laurier in Ottawa, Canada, on October 7, 8, 9 and 10th, as guests of The Canadian National Research Council.

It will be a combined meeting with C-20 on Acoustical Materials and E-6 on Methods of Testing Building Construction Several Canadian Technical Societies and Committees will also be in attendance. It will also include an inspection of the Montreal Road Laboratories of N.R.C. and their new Building Research Center. A feature of C-16 meeting will be the presentation of a paper on Nuclear Effects on Thermal Insulation by Dr. V. P. Calkins of General Electric, Chairman of Sub II of Committe E-10 on the subject of Radiation Induced Changes in Materials.

C-16 is studying the matter of forming a sub-committee to determine test methods for determination of radiation effects on thermal insulations induced by nuclear reactions.

This work has been assigned to Dr. Wayne Ellis of Benjamin Foster Company.

The Spring Meeting of Committee C-16 will be held at the Hollywood Beach Hotel, Hollywood, Florida on March 5, 6 and 7th, 1958.

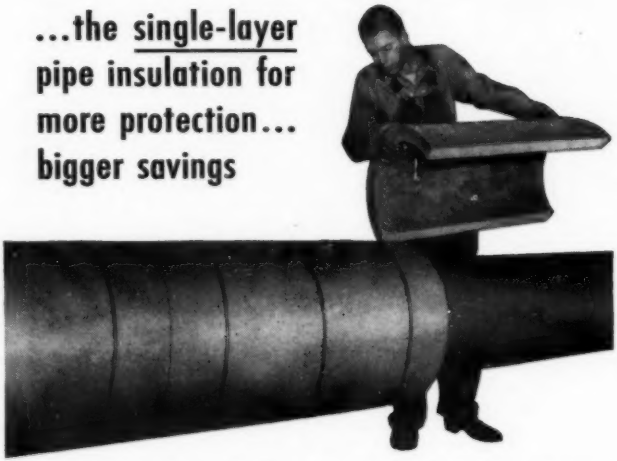
THE COLONIAL SUGAR REFINING CO. LTD.
SYDNEY, AUSTRALIA
Sole Distributors for
AUSTRALIAN BLUE ASBESTOS LIMITED
MINES AT WITTENOOM, W.A.
SOLE SELLING AGENTS

- **Minerals Fibres Ltd., Market Buildings Mark Lane, London**
  Argentine, Belgium, Brazil, Chile, Colombia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.
- **Carters (Merchants) Ltd., Winchester House Old Broad St., London**
  Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

UNIBESTOS®

...the single-layer pipe insulation for more protection... bigger savings



Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation

TEXTILES

Cloth (plain and metallic)
Woven Tapes
Gasket Cloth
Sheet Packings
Front End Tape

FLEXIBLES

Insutube—slip-on
Insutape—wrap-on
Insubestos Felt
Wovenstone®—lace-on
Specialty Insulation

PACKING

High Pressure Rod Packing
Blue Asbestos Packing—acid resistant
Square Braided Packing
Valve Stem Packings—twisted and braided
Joint Runners
High Pressure Packing—semimetallic

UNARCO®

Write for new 40-page catalog

UNION ASBESTOS & RUBBER COMPANY

1111 West Perry Street • Bloomington, Illinois

IMPORTS AND EXPORTS

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	May 1957 Tons (2240 lbs.)
From Canada	50,709
Rhodesia (Ny)	1,363
Union of S. Africa	3,665
Australia	950
Yugoslavia	585
Other Countries	100
	57,372
Valued at	$ 4,698,214

By Grades:

Crude No. 1, Chrysotile	6
Crude No. 2 Chrysotile, Canada	16
Crude, Other, Chrysotile, Yugoslavia	585
Crude, Other, Chrysotile, U. of S. Africa	186
Crude, Other, Chrysotile, Rhodesia (Ny)	1,363
Crude, Other Chrysotile, Other Countries	8
Crude, Blue Australia	950
Crdue, Blue, U. of S. Africa	2,367
Crude, Amosite, U. of S. Africa	1,112
Textile Fibres, Chrysotile, Canada	1,435
Textile Fibres, Chrysotile, Other countries	32
Shingle Fibres, Chrysotile, Canada	5,783
Paper Fibres, Chrysotile, Canada	3,863
Other Fibres, Chrysotile, Canada	39,612
Other Fibres, Chrysotile, Other Countries	54
	57,372

Manufactured Asbestos Goods:

	May 1957 Quantity (Lbs.)	Value
Asbestos Yarn, United Kingdom	67.836	$44.457
Other Countries	6,559	10.242
Asbestos Packing & Lining	2,397	2,791
Asbestos Shingles (Impreg.)	51,885	4,259
Asbestos Shingles (Not Impreg) Canada	2,475,265	209,842

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Italy	3,367,261	140,441
Other Countries	335,390	16,582
Asbestos Manufactures — Others	.....	2,223
	6,306,593	$430,837

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	May 1957	
	Tons (2240 lbs.)	Value
To Europe	74	$ 7,270
Mexico	30	9,453
South America	5	673
Other Countries	40	5,945
	149	$23,341

Manufactured Asbestos Goods:

	May 1957	
	Quantity	Value
Asbestos Cement & Pipe Covg.	Lbs. 545,284	$ 68,094
Asbestos Textiles & Yarn	Lbs. 101,592	95,631
Asbestos Packings	Lbs. 173,707	200,379
Asbestos Cltuch Facings	No. 106,804	87,227
Asb. Bk. Lng. (Mld.&S.Mld.)	Lin. Ft. 137,342	52,891
Asbestos Brake Lining, Rolls	Lin. Ft. 14,106	21,029
Asbestos Brake Lining, Other	Lbs. 516,783	428,283
Asbestos Construction Materials	Lbs. 4,061,523	433,036
Asbestos Manufactures — Other	.....	49,542
		$1,436,612

Imports of Asbestos by United Kingdom

Raw Materials

Tons 2240 lbs.

	June 1957
From Union of South Africa	1,492
Basutoland, Bechunaland & Swaziland	512
Rhodesia	2,615
Canada	5,974
Foreign Countries	89
	10,682

These figures were supplied by Reuters Economic Services Johannesburg.

CAPE BLUE ASBESTOS

Direct from the Mines or from stocks in London

•

TRANSVAAL BLUE • AMOSITE
CHRYSOTILE • ANTHOPHYLLITE

•

Processing of all grades of Asbestos carried out in our London Works.

CENTRAL ASBESTOS Co., LTD.

ABBEY WORKS • ABBEY STREET • LONDON S.E.1
'Phone BERMONDSEY 3864 Cables CENBESTOS LONDON
CENTRAL ASBESTOS (S. A.) PTY LTD. P.O. BOX 3570 JOHANNESBURG

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	May 1957 Tons (2000 lbs.)	Value
Crude		
United States	24	$ 25,990
United Kingdom	....	.....
South America	....	.....
Central America & Mexico	....	.....
European Countries	16	13,368
Other Countries	17	14,615
	57	$ 53,973
Milled		
United States	13,607	$2,329,900
United Kingdom	2,897	646,445
South America	3,895	718,909
Central America & Mexico	435	94,825
European Countries	16,275	3,185,243
Other Countries	11,278	1,040,533
	48,386	$8,815,920
Shorts		
United States	67,363	$2,923,892
United Kingdom	4,057	188,423
South America	423	28,759
Central America & Mexico	290	19,893
European Countries	5,040	38,609
Other Countries	3,552	274,582
	80,725	$ 3,774,158
Grand Total—		
Unmanufactured Asbestos:	129,168	$12,644,051

Manufactured Asbestos Goods:

Brake Lining	$ 55,691
Packing	291
Other Materials	238,022
	$294,004

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

E. C. 4

Telephone:	Cables:
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(Private Branch Exchange)	London

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Charles Robert Neal, President, Metate Asbestos Corp., Globe, Arizona, September 18.

W. N. Bolster, President & Treasurer, General Insulation Company, Cambridge, Mass., September 20.

Win Brown, Vice President, MacArthur Co., St. Paul, Minn., September 25.

C. Stanley Morgan, Detroit, Michigan, September 25.

W. S. Jeffrey, General Manager, Australian Asbestos Pty. Ltd., Marrickville, Australia, September 26.

E. R. Teubner, Jr., President & Treasurer, Philadelphia Asbestos Co., Philadelphia, Pa., September 26.

O. H. Cilley, Vice President, U. S. Asbestos Division, Raybestos-Manhattan, Inc., Manheim, Pa., September 21.

Harold R. Berlin, Vice President, Johns-Manville Sales Corporation, New York City, September 28.

W. H. Fehrs, Vice President & Secretary, Union Asbestos & Rubber Co., Cicero, Ill., September 28.

J. M. High, Sales Manager, Insulation Division, Mundet Cork Corporation, North Bergen, N. J., September 28.

Reginald L. Johnson, Vice President, Johns-Manville Corpn., New York City, September 28.

William B. Brown, Partner, The Insulation Company, Hartford, Conn., September 29.

Walter L. Odenkirk, Treasurer, Asbestos and Magnesia Materials, Chicago, Ill., September 30.

Frank L. Sowka, Treasurer, Standard Asbestos Mfg. Company, Chicago, Ill., October 1.

George Courtauld, Director, The Cape Asbestos Co., Ltd., London, England, October 2.

W. W. Dunkin, Treasurer, Southern Friction Materials Co,. Charlotte N. C., October 5.

C. L. Moorman, Vice President, Union Asbestos and Rubber Co., Chicago, Ill., October 6.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Company, Valley Forge, Pa., October 9.

Perce C. Rowe, President & Chief Adm. Officer, The Flintkote Co., New York City, October 9.

John H. Victor, Chairman of Board, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

A. L. Penhale, President & Managing Director, Asbestos Corporation Ltd., Thetford Mines, Canada, October 11.

H. R. Barrett, Vice President & Controller, The Philip Carey Mfg. Co., Cincinnati, Ohio, October 13.

W. W. F. Shepherd, Chairman of Board, Keasbey & Mattison Co. Ambler, Pa., October 13.

RAW ASBESTOS

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are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

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UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.

W. M. Paxton, Sales Manager, Packing Dept., Raybestos-Manhattan, Inc., Bridgeport, Conn., October 14.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

KEASBEY & MATTISON—CHANGES IN PERSONNEL AT ST. LOUIS PLANTS

Naaman Rhodes has been promoted to the position of Plant Manager of the company's largest asbestos-cement pipe factory in St. Louis, Mo.

With the exception of four years of U. S. Army service during World War II, Mr. Rhodes has been employed by K&M since 1936 and was formerly Assistant Works Manager of the St. Louis factories.

Mr. Rhodes' appointment marks an important step in Keasbey & Mattison's plans for expansion of their production facilities at St. Louis. New machinery is being installed which will double the capacity of this plant and make it the company's most important single factory.

Clifford A. Statler has been appointed Quality Control Supervisor of the Keasbey & Mattison Company's asbestos-cement pipe, shingles, corrugated and wallboard factories at St. Louis, Mo. He succeeds *Andrew M. Taylor* who has been promoted to Plant Manager of K&M's shingle, corrugated and wallboard factory as part of an expansion program.

Andrew M. Taylor has been promoted to Plant Manager of the Keasbey & Mattison Company's Asbestos-cement Shingles, Corrugated, and Wallboard factory at St. Louis, Mo.

Mr. Taylor has been quality control supervisor at the Company's St. Louis plants since joining K&M in May 1955. He was formerly a technical supervisor in chemical control and production for the General Chemical Division, of Allied Chemical & Dye Corporation, in Chicago.

CAPE ASBESTOS COMPANY

New Appointments

Mr. Giles Newton, deputy chairman and managing director of Cape Asbestos Company, has been elected chairman in place of Mr. Robert Walker. Mr. Walker, who has been chairman of the company since 1934, retired from the Board on August 31.

Mr. R. H. Dent and *Mr. T. C. Hale* have been appointed joint managing directors.

Mr. T. Muir Warden, Mr. Walker's alternate since 1954, has been appointed to the Board.

CABLE ADDRESS METABEST

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Producers of

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Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

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THE ENTOLETER DIVISION OF SAFETY INDUSTRIES, INC.

The Entoleter Division of Safety Industries, Inc. has announced that extensive field trials have been completed on the new heavy duty "Entoleter" Asbestos Fiberizer.

Experience with centrifugal impact machines in the Asbestos Industry has shown the need for a unit especially designed and engineered to meet the industry's extremely rugged requirements. The Entoleter Division's new Heavy Duty CentriMil Series 27 meets these specifications, incorporating such features as a rugged body and spindle assembly, duplex bearings and a special lubricating systems.

Available in various sizes to meet plant specifications, the "Entoleter" Centrifugal Fiberizers will provide the desired fizerizing action with very slight, if any, reduction of potential

Free test processing and literature can be obtained by contacting the Entoleter Division, Safety Industries, Inc., P. O. Box 904, New Haven 4, Conn. or Lynn MacLeod Engineering Supplies, Ltd., Thetford Mines, Quebec, Canada.

WESTWALL/JOHNS-MANVILLE MERGER

Directors of both companies have approved a preliminary agreement in principle, under which Westwall Gypsum Company would merge with Johns-Manville Corporation, on the basis of 1¼ Manville shares for one share of Westwall.

A formal agreement of merger would be submitted to special meetings of stockholders for their approval.

L. M. Cassidy, J-M's chairman said: "If the transaction goes through our Company will be entering a new business with a full line of gypsum products. These would go into construction markets not served at present by the Cmpany."

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

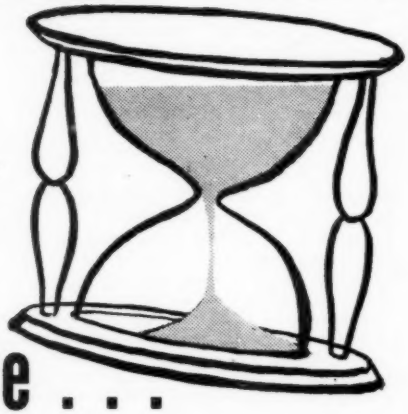
The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

DURASORB FELTS

give longer life because . . .



Their special needled construction is combined with the finest wool and synthetic blends available. This combination gives Durasorb Felts extra strength and durability to make them last longer on your machines.

This is just one of the many reasons why Durasorb Felts are ideal for asbestos-cement shingles, siding and sheets. Other Durasorb features include increased drainage, finish, stability and uniformity. Ask your Albany Felt Sales Engineer for more information.

ALBANY
FELT COMPANY
Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me
St. Stephens, S. C., Cowansville, P. Q.

AMERICAN BRAKE SHOE CO.
Changes in Personnel

The National Bearing Division of American Brake Shoe Company has appointed *Albert L. Hunt* and *Paul J. Bauman* as vice-presidents.

Mr. Hunt was formerly general manager of the division's St. Louis plant, responsible for all operations and industrial sales for the plant. With Brake Shoe since 1936 he became general manager in 1956. He will continue to be located at division headquarters in St. Louis.

Mr. Bauman was formerly general manager of National Bearing's plant in Meadville, Pennsylvania. In his new capacity as vice-president, he will be responsible for the industrial sales of the entire National Bearing Division. With Brake Shoe since 1938, he will continue to be located in Pittsburgh.

ARMSTRONG CORK CO.—BOSTON
New Appointment—New Address

John J. Roper was recently appointed District Manager of the Armstrong Cork Company, Insulation Division, for the Boston office which embraces the New England area. Mr. Roper was formerly Assistant District Manager for the Armstrong Cork Company and has been connected with the Asbestos Industry for over thirty years. Before his appointment as Assistant District Manager, he was sales representative for Armstrong for about fifteen years. Mr. Roper replaces T. R. Nunan who has retired after forty years with Armstrong.

As of September 1st, Armstrong announces the new location of its Boson sales offices and Insulation Division warehouse facilities at 200 First Avenue, New England Industrial Center, Needham Heights 94, Massachusetts.

BIRD & SON'S APPOINT
DISTRICT SALES MANAGER

Bird & Son's Charleston, South Carolina roofing mill announces the appointment of *A. K. Powers* as Sales Manager of its newly formed Dixie District, effective July 1, 1957.

Mr. Powers, for several years, was Bird & Son's sales representative for the States of Georgia and Northern Florida. He has been associated with the building materials industry since 1935, having worked as a building materials sales representative for Chase & Company of Sanford, Florida and with National Gypsum.

The new Dixie District which Mr. Powers will head, includes the states of Florida, Georgia and South Carolina with headquarters in the Atlanta, Georgia area. It is felt that this arrangement will provide the south eastern section serviced by Bird with better sales cooperation and service.

Antony Gibbs & Co., Inc.

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Grades: Spinning, 3Z, 4H, 5R, 6D, 7M

UNION CHRYSOTILE

CAPE BLUE

Kuruman Cape Blue Asbestos

Grades: 1, 2, 3

TRANSVAAL BLUE

Baboon Asbestos Co.

Grades: TD1, TD2, TD3, TD4

ARMSTRONG CORK COMPANY

Changes in Personnel

A realignment of responsibilities for Industrial Insulation Sales and Contract Operations of the Armstrong Cork Company effective September 1 has been announced.

The changes are being made as a result of the scheduled retirement on that date of Sloane C. Martin, Manager of Low Temperature Insulation Sales and Assistant Manager of Contract Operations. Mr. Martin is a veteran of 37 years service with the Company, having joined Armstrong in 1920.

J. W. Liddell will continue as Manager of Contract Operations, being responsible for sales efforts and execution of all Industrial Insulation contracts.

J. P. Sawyer has been appointed Manager of Low Temperature Insulation and Insulating Refractories Sales. Mr. Sawyer previously served as Assistant Manager of Industrial Insulation Sales and Manager of Insulating Refractories.

F. S. Donnelly, Jr., who served as Manager of Industrial Insulation Sales, will become Manager of Armaflex and Sundries Sales and Manager of Market Research and New Product Development.

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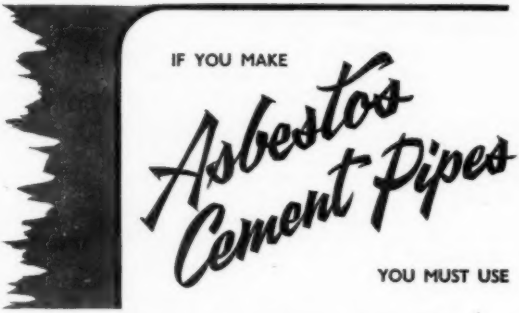

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Asbestos Cement Pipes

YOU MUST USE

HARDMAN'S

All-Nylon

TOP FELTS

AND OBTAIN DOUBLE THE LIFE

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Fernhill Mills, BURY,
LANCASHIRE, ENGLAND

CABLES: FELTS, BURY.

UNITED STATES RUBBER CO.
Changes in Personnel

Appointment of *Charles R. Dear* as manager of marketing research for the textile division, United States Rubber Co. has been announced.

Mr. Dear, formerly a vice president of A. D. Juilliard Co., joined the rubber company's textile division a year ago and was acting manager of marketing research for the past six months.

James H. Phillips has been appointed manager of sales and production coordination for the textile division.

Mr. Phillips joined the rubber company in 1950 and spent three years in labor standards at the Winnsboro, S. C. and Hogansville, Ga., mills. He became a marketing and economic analyst at the New York headquarters of the company after receiving a Master of Business Administration degree at Harvard University in 1955.

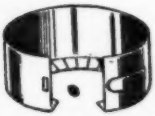
CURRENT RANGE OF PRICE

As of September 10, 1957

ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona		
No. 1 Crude (soft)	$1,500.00	to	$1,750.00
No. 2 Crude (soft)	900.00	to	1,050,00
No. 3 Crude (soft)	400.00	to	450.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1.400.00	to	$1,725.00
Group N. 2 Crude No. 2; Crude Run-of-Mine and Sundry	750.00	to	1,100.00
Group No. 3 (Spinning Fibre)	350.00	to	575.00
Group No. 4 (Shingle Fibre)	170.00	to	225.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No.7, (Refuse or Shorts)	38.00	to	75.00

Vermont—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 3 (Spinning & Filtering)	$ 353.00	to	$ 383.00
Group No. 4 (Shingle Fibre)	172.00	to	190.00
Group No. 5 (Paper Fibre)	114.00	to	145.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No. 7 (Refuse or Shorts)	39.00	to	72.00



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The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

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ac

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An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions
Circulation exceeding 44000
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W. H. MORRIS RETIRES FROM K. & M.

The retirement of *William H. Morris*, General Consultant in the research division of Keasbey & Mattison Company, Ambler, Pa., manufacturers of asbestos-cement, magnesia and asphalt products, has been announced.

Mr. Morris joined K&M in 1909 as assistant to the chief chemist and became chief chemist in 1912. In his 48 years of continuous service he has held positions of assistant superintendent, assistant general superintendent and in 1935 until 1940 he was in charge of the chemical laboratory in the power products plant, working on research development and quality control. He became general consultant of the research division in 1940.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		August 1957		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	49¼	52¼	50
Amer. Br. Shoe (Pfd.)	100	122½	128⅜	122½
Armst. Ck. (Com.)	1	24¾	26	25½
Armst. Ck. (Pfd.)	np	81	86	83
Asbestos Corp. (Com.)	np	25¼	28⅜	28
Carey (Com.)	10	23½	27¾	24½
Cassiar Asb. Corp.	np	$6.75	$7.30	$7.10
Celotex (Com.)	1	31¼	32¾	31⅝
Celotex (Pfc.)	20	17	17¼	17
Certainteed (Com.)	1	8½	8⅞	8⅝
Fibreboard Paper Prod. (Com.)	np	26	29⅜	26
Fibreboard Paper Prod. (Pfd.)	100	97	102	101
Flintkote (Com.)	5	41¼	45	42½
Flintkote, (Pfd.)	np	91	91	91
Johns-Manville (Com.)	5	41¼	45⅜	42⅛
Natl. Gypsum (Com.)	1	39	42⅞	40
Natl. Gypsum (Pfd.)	np	84	88½	85
Ray-Man (Com.)	1	54¼	56	54½
Ruberoid (Com.)	1	30½	34½	31
Thermoid (Com.)	1	10½	12½	10¾
Thermoid (Pfd.)	50	44	45	45
Union Asb. & Rub. (Com.)	5	7⅜	8⅛	7½
United Asb. (Com.)	1	$5.75	$6.55	$5.75
U. S. Gypsum (Com.)	4	56½	61⅜	60
U. S. Gypsum (Pfd.)	100	147	150	150
U. S. Rubber (Com.)	5	39¾	44¾	41
U. S. Rubber (Pfd.)	100	139½	144¼	140½

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KEASBEY & MATTISON EXECUTIVES RECEIVE NEW APPOINTMENTS

The promotion of three Keasbey & Mattison Co. executives has been announced by Clyde R. Hutchcroft, manager of research and development of the company.

Joseph C. Jackson, formerly a field chemical engineer with Day & Zimmerman, Inc., has been appointed Pilot Plant Supervisor, and will engage in the research and development of new products. He obtained a B.S. degree in chemical engineering from Penn State University.

Joseph Cangelosi has been promoted to Asbestos-Cement Pipe Development Supervisor. He was formerly Pilot Plant Supervisor of K&M. Mr. Cangelosi holds a B.S. degree in chemical engineering obtained from the University of Pennsylvania.

Arthur G. Kracker has been appointed Plastics Research Supervisor. He graduated from Drexel Institute of Technology with a B.S. degree in chemical engineering and obtained his Master's degree at Bucknell University.

FLINTKOTE APPOINTS PRODUCT MANAGER

The appointment of *O. H. Storey, Jr.*, as product manager for gypsum products of The Flintkote Company has been announced.

The appointment is another of the initial moves Flintkote is making in order to prepare vigorously for their entry into the gypsum field when the new gypsum products plant is completed at Sweetwater, Texas, this Fall.

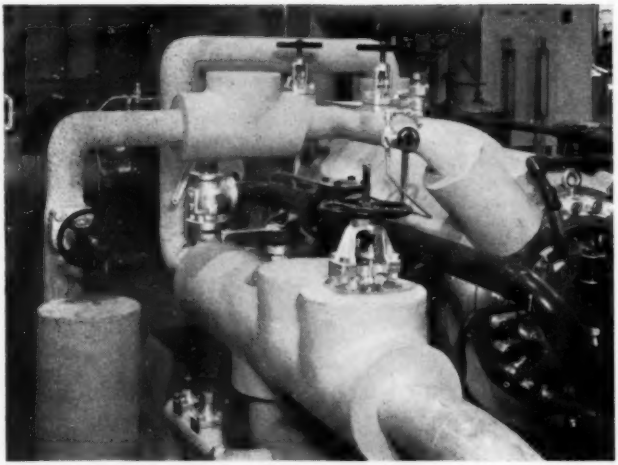
Mr. Storey will make his headquarters at Flintkote's new building materials plant at Ennis, Texas. He will report directly to *H. H. Whittemore*, general sales manager of the company's building materials division.

IDCNA

On June 25, 1957, the Insulation Contractors of San Diego, who are engaged in the distribution and application of commercial and industrial insulations, organized a nonprofit trade association to be known as: Associated Insulation Contractors of San Diego, 758 Front Street, San Diego 1, California. The officers are: *K. M. Glasoe, Jr.*, President; *John L. Glenn, Jr.*, Vice President and *G. A. Jacobsen*, Secretary-Treasurer.

TURNER & NEWALL

Turner and Newall has announced that it has acquired all the issued capital of Springbok Pipe Company (Proprietary) of South Africa—manufacturer of asbestos-cement-pipes—and all of the issued capital of Endurite (Private) manufacturer of asbestos-cement products in Northern Rhodesia.



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Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

FIBREBOARD PAPER PRODUCTS CORP.

Russell A. Morin joined Fibreboard Paper Products Corporation on August 1st as director of traffic.

In his new position he will assume complete responsibility for the administration of the traffic department and all of the company's traffic and transportation affairs, formerly held by Harold A. Lincoln, who will continue actively as director of traffic research.

Mr. Morin has had 30 years of wide and varied experience in traffic practice and administration. For the past eleven years he has been associated with the United States Gypsum Company in Chicago and was general traffic manager when he resigned to join the Fibreboard company.

JOHNS-MANVILLE RESEARCH CENTER

New Appointment

John Q. Trice has been named manager of the Asbestos Fibre Department at Johns-Manville Research Center, Manville, N. J.

Mr. Trice began his Johns-Manville career in 1946 as a research engineer for Transite pipe. Six years later he became chief of the Asbestos-Cement Transite Pipe Section, and in April 1956 was named assistant manager of the newly formed Pipe Department.

AMERICAN BRAKE SHOE EXPANDS WESTERN CANADA OPERATIONS

Dominion Brake Shoe Company, Ltd. has acquired all the physical assets and business of Manitoba Foundries and Steel, Ltd., in a cash transaction, it was announced joinlly by Kenneth T. Fawcett, president of Dominion Brake Shoe, and H. O. Jones, president of Manitoba Foundries.

Dominion Brake Shoe is a subsidiary of American Brake Shoe Company, and Manitoba Foundries has been a wholly-owned subsidiary of Vulcan Iron and Engineering, Ltd.

The Second Annual Convention of Insulation Distributor-Contractors National Association, Inc., will be held on September 17, 18, 19 and 20th at the St. Fancis Hotel, San Francisco, Cal.

Subjects of interest to insulation distributors and contractors will be discussed and many social events are scheduled for the delegates.

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to the Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued name of patentee and name of invention.

Asphaltic Magnesia Composition and Method of Producing the Same. No. 2,800,415. Granted on July 23, 1957 to W. R. Seipt (assignor to Keasbey & Mattison Co., Ambler, Pa.) Composition and method for manufacturing 85% magnesia materials having a substantial degree of water repellency and especially adapted to be used on hot piping or equipment where the insulation is subjected to occasional or periodic external drenching, soaking, or submergence in water or other liquids The insulation piece is molded from an aqueous slurry of carbonated magnesia, asbestos fibre, and a low-melting asphalt emulsion, such as the commercial products N-3-HPC (Flintkote Co. or K-89 (Pioneer Latex & Chemical Co.). The piece is dried at temperatures in the 220 degree F. to 400 degree F. range to remove the free moisture, and then baked in a dry heat for a period of 2 to 20 hours, the higher heats being used when it is desired to use ar elatively short making time A small percentage of bentonite may be added to the initial slurry to disperse and maintain the asphalt in aqueous suspension.

Valveless Intermittent Dehumidifier. No. 2,801,706. Granted on August 6, 1957 to G. C. F Asker (assignor to Desomatic Products, Inc., Falls Church, Va.). Asbestos fibre longer than 1/8 inch is suspended with a binder in a water slurry, and the mixture passed through a screen to form a mat of desired thickness. This mat is then used as the foraminous barrier material in a relatively stationary intermittent dehumidifying apparatus.

FIBREBOARD PAPER PRODUCTS CORP.

Six months' Report

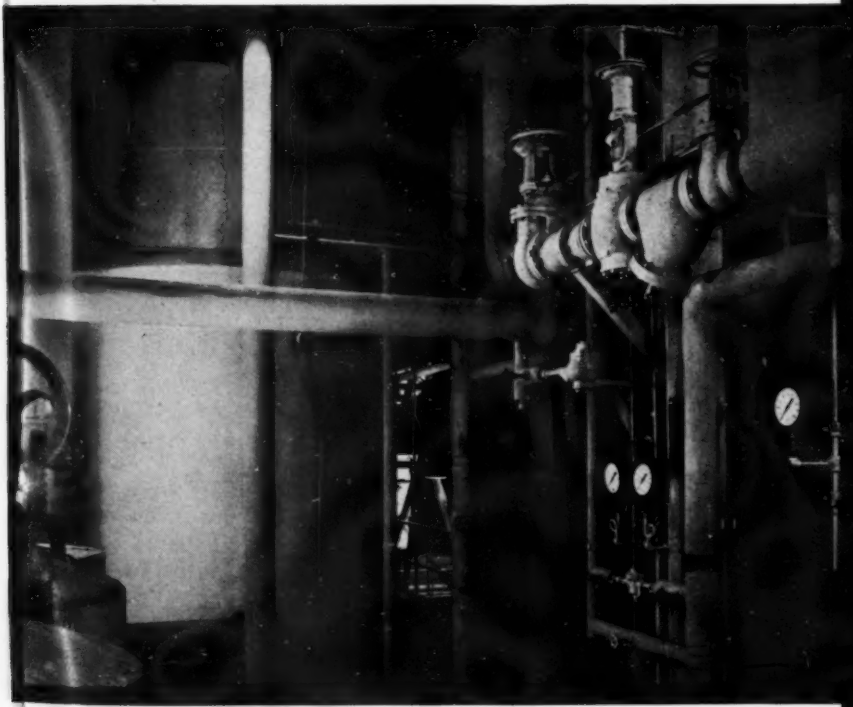
Net profit for the second quarter of 1957 amounted to $985,995, equal to 61c per share of common stock outstanding; sales were $30,726,420. For the first six months of the year, sales totalled $60,899,095 and net profit was $1,961,155, or $1.21 per common share.

In the comparable second quarter of 1956 sales amounted to $32,539, 264 and net profit was $1,767,632 or $1.10 per common share (after adjustment for the 4% dividend paid in 1957). Net profits for the first six months of 1956 amounted to $2,826,040. or $1.76 per common share after adjustment for the 4% stock dividend, with sales of $60,529,517.

ONLY APPROVED CONTRACTORS INSTALL EHRET INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of Ehret-approved contractors. Only men fully skilled in the application of Ehret products are entrusted with their installation. Result: Full insulating value and long, trouble-free service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your Ehret Distributor or write direct for Bulletin 11C to the address below.



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SOUTHERN ASBESTOS — TEXTILES

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